

SEQUENCE LISTING

<110> ARES TRADING S.A.

<110> FAGAN, Richard Joseph

<110> DAVIDS, Andrew Robert

<110> PHELPS, Christopher Benjamin

<110> POWER, Christine

<110> BOSCHERT, Ursula

<110> CHVATCHKO, Yolande

<120> CYTOKINE AGONIST MOLECULES

<130> P035815WO

<140> PCT/GB2004/004772

<141> 2004-11-12

<150> GB0326393.6

<151> 2003-11-12

<160> 31

<170> SeqWin99, version 1.02

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<211> 85

<212> DNA

<213> Homo sapiens

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<210> 2

<211> 29

<212> PRT

<213> Homo sapiens

<400> 2

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp
20 25

<210> 3

<211> 342

<212> DNA

<213> Homo sapiens

<400> 3

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tcagcgacct gcagctggcc gatgagggca cctatgaggt cgagatctcc atcaccgacg 300
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 <213> Homo sapiens

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 1 5 10 15

Thr Val Gly Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser
 20 25 30

Ser Asp Arg Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val
 35 40 45

Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro
 50 55 60

Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu
 65 70 75 80

Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser
 85 90 95

Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val
 100 105 110

Asp Val

<210> 5
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 <212> DNA
 <213> Homo sapiens

<400> 5
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<210> 6
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 6
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Leu Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys

20

25

30

Pro Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser
 35 40 45

Arg Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val
 50 55 60

Leu Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile
 65 70 75 80

Ser Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg
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<210> 7

<211> 94

<212> DNA

<213> Homo sapiens

<400> 7

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<210> 8

<211> 31

<212> PRT

<213> Homo sapiens

<400> 8

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Val Thr Leu Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg
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<210> 9

<211> 74

<212> DNA

<213> Homo sapiens

<400> 9

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<210> 10

<211> 25

<212> PRT

<213> Homo sapiens

<400> 10

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Asn Asp Asp Arg Leu Lys Pro Glu Ala
 20 25

<210> 11
 <211> 71
 <212> DNA
 <213> Homo sapiens

<400> 11
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<210> 12
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 12
 Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys Asn Pro Met Ala
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Leu Tyr Ile Leu Lys Asp Lys
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<210> 13
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 13
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<210> 14
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 14
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Thr Glu Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly
 20 25 30

Arg Ser Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser
 35 40 45

Pro Ala Arg Ser Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg
 50 55 60

Ala Pro Ser Ser Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg
 65 70 75 80

Thr Ala Gly Val His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val
 85 90 95

Glu Ile Ser Ala
 100

<210> 15
 <211> 1251
 <212> DNA
 <213> Homo sapiens

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<210> 16
 <211> 416
 <212> PRT
 <213> Homo sapiens

<400> 16
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
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Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser
 370 375 380

Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val
 385 390 395 400

His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
 405 410 415

<210> 17

<211> 1257

<212> DNA

<213> Mus musculus

<400> 17

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 cgtctgatcc acggcacagt ggggaagtcg gccctgctt ccgtgcagta cagtagcacc 180
 agcagcgaca agcccggtt gaagtggcag ctgaagcgtg acaagccagt gaccgtgg 240
 cagtctatag gcacagaggt cattggcaact ctgcggcctg actatcgaga ccgtatccgg 300
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 cccggggccc cgagctcgcc aggccgctcg cgcaagcttt cgcaact gcgactgca 1200
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<210> 18

<211> 418

<212> PRT

<213> Mus musculus

<400> 18

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15

Leu Ser Pro Phe Val Tyr Leu Leu Leu Ile Gln Pro Val Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Lys
 50 55 60

Pro	Val	Val	Lys	Trp	Gln	Leu	Lys	Arg	Asp	Lys	Pro	Val	Thr	Val	Val
65					70					75					80
Gln	Ser	Ile	Gly	Thr	Glu	Val	Ile	Gly	Thr	Leu	Arg	Pro	Asp	Tyr	Arg
				85					90					95	
Asp	Arg	Ile	Arg	Leu	Phe	Glu	Asn	Gly	Ser	Leu	Leu	Ser	Asp	Leu	
				100					105				110		
Gln	Leu	Ala	Asp	Glu	Gly	Thr	Tyr	Glu	Val	Glu	Ile	Ser	Ile	Thr	Asp
				115				120			125				
Asp	Thr	Phe	Thr	Gly	Glu	Lys	Thr	Ile	Asn	Leu	Thr	Val	Asp	Val	Pro
				130			135			140					
Ile	Ser	Arg	Pro	Gln	Val	Leu	Val	Ala	Ser	Thr	Thr	Val	Leu	Glu	Leu
				145			150			155			160		
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				165				170			175				
Ser	Tyr	Thr	Trp	Leu	Lys	Asp	Gly	Lys	Pro	Leu	Leu	Asn	Asp	Ser	Arg
				180				185			190				
Met	Leu	Leu	Ser	Pro	Asp	Gln	Lys	Val	Leu	Thr	Ile	Thr	Arg	Val	Leu
				195				200			205				
Met	Glu	Asp	Asp	Asp	Leu	Tyr	Ser	Cys	Val	Val	Glu	Asn	Pro	Ile	Ser
				210			215			220					
Gln	Val	Arg	Ser	Leu	Pro	Val	Lys	Ile	Thr	Val	Tyr	Arg	Arg	Ser	Ser
				225			230			235			240		
Leu	Tyr	Ile	Ile	Leu	Ser	Thr	Gly	Gly	Ile	Phe	Leu	Leu	Val	Thr	Leu
				245				250			255				
Val	Thr	Val	Cys	Ala	Cys	Trp	Lys	Pro	Ser	Lys	Lys	Ser	Arg	Lys	Lys
				260				265			270				
Arg	Lys	Leu	Glu	Lys	Gln	Asn	Ser	Leu	Glu	Tyr	Met	Asp	Gln	Asn	Asp
				275			280			285					
Asp	Arg	Leu	Lys	Ser	Glu	Ala	Asp	Thr	Leu	Pro	Arg	Ser	Gly	Glu	Gln
				290			295			300					
Glu	Arg	Lys	Asn	Pro	Met	Ala	Leu	Tyr	Ile	Leu	Lys	Asp	Lys	Asp	Ser
				305			310			315			320		
Ser	Glu	Pro	Asp	Glu	Asn	Pro	Ala	Thr	Glu	Pro	Arg	Ser	Thr	Thr	Glu
				325				330			335				
Pro	Gly	Pro	Pro	Gly	Tyr	Ser	Val	Ser	Pro	Pro	Val	Pro	Gly	Arg	Ser
				340				345			350				

Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala
 355 360 365

Arg Ser Pro Ala Thr Gly Arg Thr His Thr Ser Pro Pro Arg Ala Pro
 370 375 380

Ser Ser Pro Gly Arg Ser Arg Ser Ser Arg Ser Leu Arg Thr Ala
 385 390 395 400

Gly Val Gln Arg Ile Arg Glu Gln Asp Glu Ser Gly Gln Val Glu Ile
 405 410 415

Ser Ala

<210> 19

<211> 720

<212> DNA

<213> Homo sapiens

<400> 19

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 cagtcatttgc acacagaggt catcgccacc ctgcggcctg actatcgaga ccgtatccga 300
 ctcttggaaa atggctccct gcttctcagc gacctgcagc tggccgatga gggcacctat 360
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 ctgaaggatg gcaagccct cctcaatgac tcgagaatgc tcctgtcccc cgacccaaag 600
 gtgctcacca tcacccgcgt gctcatggag gatgacgacc tgtacagctg catggtgag 660
 aacccatca gccagggccg cagcctgcct gtcaagatca ccgtatacag aagaagctcc 720

<210> 20

<211> 240

<212> PRT

<213> Homo sapiens

<400> 20

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205

Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser
 210 215 220

Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240

<210> 21

<211> 621

<212> DNA

<213> Homo sapiens

<400> 21

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 gactatcgag accgtatccg actctttgaa aatggctccc tgcttctcag cgacctgcag 240
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<210> 22

<211> 207

<212> PRT

<213> Homo sapiens

<400> 22

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
 1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Asp Arg Pro
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 195 200 205

<210> 23

<211> 328

<212> DNA

<213> Homo sapiens

<400> 23

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 gactatcgag accgtatccg actctttgaa aatggctccc tgcttctcag cgacacctgag 240
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 gagaagacca tcaacccttac tgtatgt 328

<210> 24

<211> 110

<212> PRT

<213> Homo sapiens

<400> 24

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
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Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val
100 105 110

<210> 25

<211> 1152

<212> DNA

<213> Homo sapiens

<400> 25

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gacaagccag tgaccgtggc gcagtcattt ggcacagagg tcatacgacac cctgcggcct 180
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ctggccgatg agggcaccta tgaggtcgag atctccatca ccgacgacac cttcaactggg 300
gagaagacca tcaaccttac tgtatgttgc cccatttcga ggccacaggt gttgggtggct 360
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atcagcgcctt ga 1152

<210> 26

<211> 383

<212> PRT

<213> Homo sapiens

<400> 26
 Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
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 Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Asp Arg Pro
 20 25 30

 Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

 Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

 Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
 65 70 75 80

 Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

 Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

 Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

 Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

 Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

 Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

 Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

 Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Leu
 195 200 205

 Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu Val
 210 215 220

 Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys Leu
 225 230 235 240

 Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg Leu
 245 250 255

 Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys
 260 265 270

 Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu Thr
 275 280 285

Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly Pro
 290 295 300
 Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly Leu
 305 310 315 320
 Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser Pro
 325 330 335
 Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser Pro
 340 345 350
 Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val His
 355 360 365
 Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
 370 375 380
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 <211> 256
 <212> PRT
 <213> Homo sapiens
 <400> 27
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15
 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn
 210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser
 225 230 235 240

Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
 245 250 255

<210> 28

<211> 256

<212> PRT

<213> Homo sapiens

<400> 28

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn
 210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser
 225 230 235 240

Phe Tyr Ile Ile Cys Leu Lys Glu Ala Ser Ser Ser Phe Gly Pro Trp
 245 250 255

<210> 29

<211> 213

<212> PRT

<213> Homo sapiens

<400> 29

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
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Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser His
 195 200 205

His His His His His
 210

<210> 30

<211> 439

<212> PRT

<213> Homo sapiens

<400> 30

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
 1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Glu

195	200	205
Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro		
210	215	220
Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys		
225	230	235
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val		
245	250	255
Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp		
260	265	270
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr		
275	280	285
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp		
290	295	300
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu		
305	310	315
320		
Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg		
325	330	335
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys		
340	345	350
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp		
355	360	365
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys		
370	375	380
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser		
385	390	395
400		
Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser		
405	410	415
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser		
420	425	430
Leu Ser Leu Ser Pro Gly Lys		
435		
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Val Arg Leu Ile His Gly Thr Val Gly Lys Ser Ala Leu Leu Ser Val		
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		15

Gln	Tyr	Ser	Ser	Thr	Ser	Ser	Asp	Arg	Pro	Val	Val	Lys	Trp	Gln	Leu
20							25					30			
Lys	Arg	Asp	Lys	Pro	Val	Thr	Val	Val	Gln	Ser	Ile	Gly	Thr	Glu	Val
35						40					45				
Ile	Gly	Thr	Leu	Arg	Pro	Asp	Tyr	Arg	Asp	Arg	Ile	Arg	Leu	Phe	Glu
50					55					60					
Asn	Gly	Ser	Leu	Leu	Leu	Ser	Asp	Leu	Gln	Leu	Ala	Asp	Glu	Gly	Thr
65					70				75			80			
Tyr	Glu	Val	Glu	Ile	Ser	Ile	Thr	Asp	Asp	Thr	Phe	Thr	Gly	Glu	Lys
85						90					95				
Thr	Ile	Asn	Leu	Thr	Val	Asp	Val	Pro	Ile	Ser	Arg	Pro	Gln	Val	Leu
100						105					110				
Val	Ala	Ser	Thr	Thr	Val	Leu	Glu	Leu	Ser	Glu	Ala	Phe	Thr	Leu	Asn
115						120					125				
Cys	Ser	His	Glu	Asn	Gly	Thr	Lys	Pro	Ser	Tyr	Thr	Trp	Leu	Lys	Asp
130					135					140					
Gly	Lys	Pro	Leu	Leu	Asn	Asp	Ser	Arg	Met	Leu	Leu	Ser	Pro	Asp	Gln
145					150				155			160			
Lys	Val	Leu	Thr	Ile	Thr	Arg	Val	Leu	Met	Glu	Asp	Asp	Asp	Leu	Tyr
165						170					175				
Ser	Cys	Met	Val	Glu	Asn	Pro	Ile	Ser	Gln						
							180		185						